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2 What is claimed is:

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4 1. An underfloor cable junction unit for installation in a raised-floor system
5 used as cooling air supply duct for devices arranged on the raised floor and having
6 floor panels with cooling air outlets,

7 the junction unit having a top side, wherein the top side or at least a major part
8 of it is open to enable the passage of cooling air through the top side toward a floor
9 panel with cooling air outlets.

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11 2. The underfloor cable junction unit of claim 1, which is designed to be
12 mounted on a base floor on which the raised floor is posted.

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14 3. The underfloor cable junction unit of claim 1, which is dimensioned such
15 that it can be lowered through a module opening which is present when a module
16 panel of a discrete modular raised-floor system is removed.

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18 4. The underfloor cable junction unit of claim 1, having opposite faces and
19 comprising rows of connectors arranged on at least two levels one above the other at
20 at least one of the faces, wherein open slits are provided in at least one of the faces
21 of the junction unit between the rows of connectors to facilitate the passage of cooling
22 air through the junction unit from face to face.

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24 5. The underfloor cable junction unit of claim 1, the junction unit having lateral
25 sides, wherein the lateral sides or at least a major part of them are open.

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27 6. An underfloor cable junction unit for installation in a raised-floor system
28 used as cooling air supply duct, the junction unit having opposite faces and
29 comprising rows of connectors arranged on at least two levels one above the other at
30 at least one of the faces, wherein open slits are provided in at least one of the faces
31 between the rows of connectors to facilitate the passage of cooling air through the

1 junction unit from face to face.

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3 7. The underfloor cable junction unit of claim 6, the junction unit having a top
4 side, wherein the top side or at least a major part of it is open to enable the passage
5 of cooling air through the top side.

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7 8. The underfloor cable junction unit of claim 6, the junction unit having lateral
8 sides, wherein the lateral sides or at least a major part of them are open.

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10 9. An underfloor cable junction unit for installation in a raised-floor system,
11 the junction unit having opposite faces and comprising slide-in connector units able to
12 be slid into the junction unit at at least one of its faces from outside, the slide-in
13 connector units being arranged on at least two levels in the junction unit, one above
14 the other.

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16 10. The underfloor cable junction unit of claim 9, wherein the slide-in connector
17 units are fixed to the junction unit in a dismountable manner to enable them to be
18 removed, replaced or changed in their position or enable further slide-in units to be
19 mounted, without dismounting the junction unit.

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21 11. The underfloor cable junction unit of claim 9, wherein the slide-in connector
22 units have connector rows, at least some of the connector rows being at least one of
23 copper data cable connector rows or optical fiber connector rows.

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25 12. The underfloor cable junction unit of claim 11 having optical fiber
26 connector rows with a connector type which enables pre-fabricated optical break-out
27 cables with pre-installed cable connectors to be plugged-in at the permanent-cable
28 connection side of the junction unit connectors, without using a splice box.

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30 13. The underfloor cable junction unit of claim 9, arranged to accommodate
31 slide-in connector units at two opposing faces of the junction unit.

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14. The underfloor cable junction unit of claim 9, wherein the junction unit has an inside, and wherein connectors of the slide-in connector units are arranged such that permanent cable connections are provided at an inner side of the connectors facing the inside of the junction unit and plug-in patch cable connections are provided at an outward-facing side of the connectors.

15. The underfloor cable junction unit of claim 9, wherein the slide-in connector units have rows of connectors, the connectors being provided with enclosures.

16. An underfloor cable junction unit with rows of connectors for installation in a raised-floor system, the junction unit having a frame structure with a frame, the frame comprising portal-like front parts and sidebars connecting the front parts, such that the portal like front parts are arranged opposite each other.

17. The underfloor cable junction unit of claim 16, wherein both front parts are open at least at their lower parts to enable bunches of permanent cables to pass through the junction unit, whereby the permanent cable bunches are encompassed and thereby guided.

18. The underfloor cable junction unit of claim 16, wherein several mounting positions are provided for the sidebars to enable them to be mounted at different heights.

19. The underfloor cable junction unit of claim 16, wherein the sidebars are mounted to the front parts in a dismountable manner to enable them to be replaced or their mounting height to be changed.

20. The underfloor cable junction unit of claim 16, which is arranged to be height adjustable.

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2 21. The underfloor cable junction unit of claim 16, which is arranged to be
3 width adjustable.

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5 22. An underfloor cable junction unit for installation in a raised-floor system,
6 the junction unit having faces and lateral sides,
7 wherein at least one of the faces is equipped with rows of connectors; and
8 at least one horizontal sidebar is arranged at each of the lateral sides, wherein
9 the sidebar is arranged to enable permanent cables coming from the inner side of
10 connector rows to pass above and outwardly of the sidebar downwardly to a base
11 floor and to be fixed to the sidebar.

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13 23. The underfloor cable junction unit of claim 22, further comprising patch
14 cable guiding elements arranged laterally on at least one of the faces of the junction
15 unit, said guiding elements enabling patch cables plugged into connectors of the
16 connector rows to be guided laterally on the face of the junction unit downwardly to a
17 base floor.

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19 24. The underfloor cable junction unit of claim 22, wherein both faces are open
20 at least at their lower parts to enable bunches of permanent cables to pass through
21 the junction unit, whereby the permanent cable bunches are encompassed and
22 thereby guided.

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24 25. A computer center having a raised floor on which computers are arranged,
25 said raised floor is arranged as cooling air supply duct for the computers and
26 has floor panels with cooling air outlets,

27 said raised floor is equipped with underfloor cable junction units by which the
28 computers are connected to permanent data cables running under the raised floor,

29 said junction unit having a top side, wherein the top side or at least a major part
30 of it is open to enable the passage of cooling air through the top side toward a floor
31 panel with cooling air outlets.

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2 26. A computer center having a raised floor on which computers are arranged,
3 said raised floor is arranged as cooling air supply duct for the computers,
4 said raised floor is equipped with underfloor cable junction units by which the
5 computers are connected to permanent data cables running under the raised floor,
6 said junction unit having opposite faces and comprising rows of connectors
7 arranged on at least two levels one above the other at at least one of the faces,
8 wherein open slits are provided in at least one of the faces between the rows of
9 connectors to facilitate the passage of cooling air through the junction unit from face
10 to face.

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12 27. A computer center having a raised floor on which computers are arranged,
13 said raised floor is equipped with underfloor cable junction units by which the
14 computers are connected to permanent data cables running under the raised floor,
15 said junction unit having opposite faces and comprising slide-in connector units
16 able to be slid into the junction unit at at least one of its faces from outside, the slide-
17 in connector units being arranged on at least two levels in the junction unit, one above
18 the other.

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20 28. A computer center having a raised floor on which computers are arranged,
21 said raised floor is equipped with underfloor cable junction units by which the
22 computers are connected to permanent data cables running under the raised floor,
23 said junction unit having a frame structure with a frame, the frame comprising
24 portal-like front parts and sidebars connecting the front parts, such that the portal like
25 front parts are arranged opposite each other.

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27 29. A computer center having a raised floor on which computers are arranged,
28 said raised floor is equipped with underfloor cable junction units by which the
29 computers are connected to permanent data cables running under the raised floor,
30 said junction unit having faces and lateral sides,

1 wherein at least one of the faces is equipped with rows of connectors; and
2 at least one horizontal sidebar is arranged at each of the lateral sides, wherein
3 the sidebar is arranged to enable permanent cables coming from the inner side of
4 connector rows to pass above and outwardly of the sidebar downwardly to a base
5 floor and to be fixed to the sidebar.

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7 30. The computer center of claim 29, further comprising active network
8 elements and network element junction units, wherein the permanent data cables
9 permanently connect the underfloor cable junction units and the network element
10 junction units, wherein first patch cables for the connection of the computers with the
11 underfloor cable junction units and second patch cables for the connection of the
12 active network elements with the network element junction units are provided.

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